Fermilab

AP-Note-90-010

ACCELERATOR PHYSICS DEPARTMENT

TITLE: HOW TO INCORPORATE YOUR MONGO GRAPHICS INTO A LaTeX FILE

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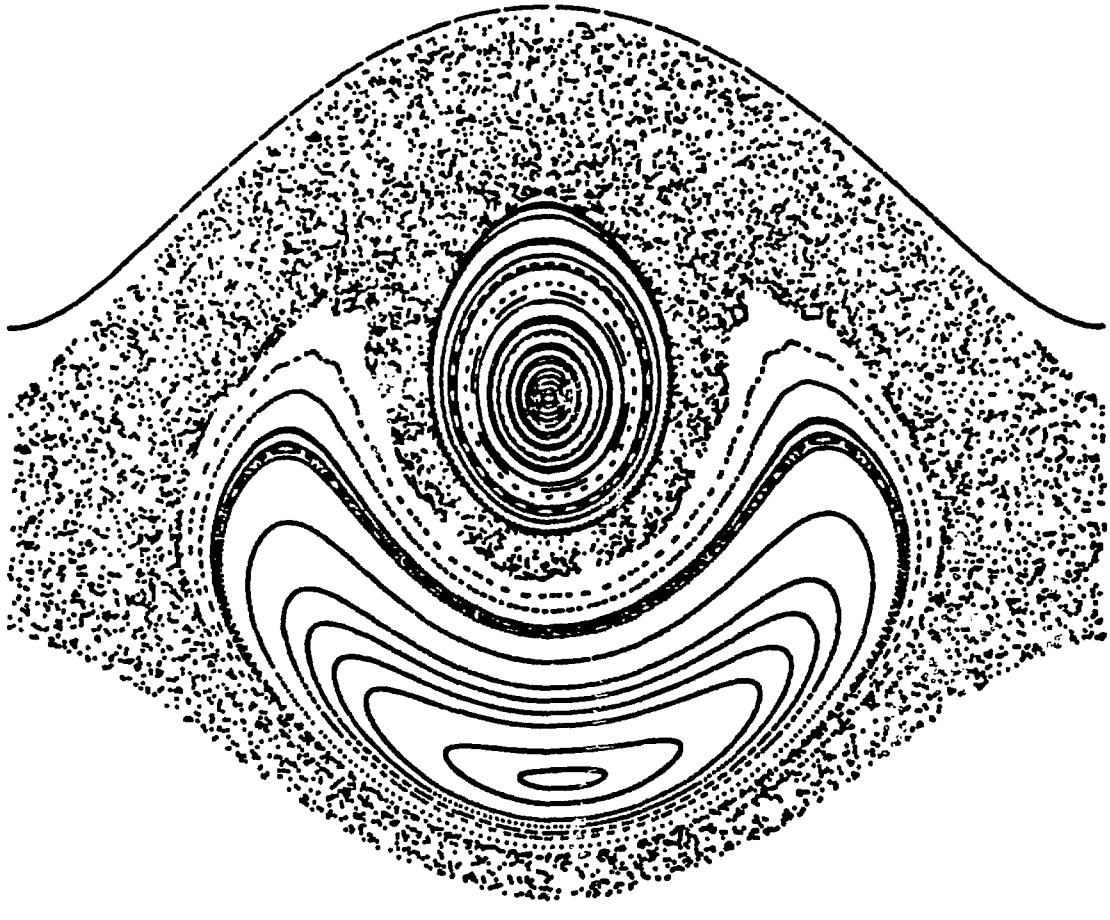


with an asterisk. The dialog should then run as follows ("you" in low case, "MONGO" in capitals):

```
*printer 1
*input graf.plt
*hardcopy
*NAME AN OUTPUTFILE (OF TYPE *.Q):
DATA: graf.q
*end
```

If you now type **print/queue=laser graf.q**, you will get the plot shown on the appended page. **printer 1** refers to portrait orientation, **printer 2** to landscape. If you have two graphs and want to show them side by side, you can use the **WINDOW** command when you run **MONGO**, for example:

```
*printer 2
*window 2 1 1
*input graf.plt
*window 2 1 2
*input graf.plt
*hardcopy
*NAME AN OUTPUTFILE (OF TYPE *.Q):
DATA: graf2.q
*end
```

The plot of **graf2.q** is shown on the second appended page.

If you wish, however to incorporate these pictures in your text, you need to insert the following lines at the place you wish the picture to appear:

```
\input grafix
\grafix HEIGHT,WIDTH,(f)vector,graf.q,1
```

If you are using **printer 2**, you should use **vector** here, for **printer 1** you should use **fvector**, which rotates the picture by 90°. **grafix** always gives the landscape orientation and the pictures produced using **printer 1** will be lying on their side unless rotated. For example, with **\grafix 13.5cm,20cm,fvector,graf.q,1**, the first plot looks as follows:

I, of my Spencer quite bereft
Last winter sore was shaken;
Of Lamb I've but a quarter left,
Nor could I save my Bacon.

After this, say, you want to show the double picure as follows:

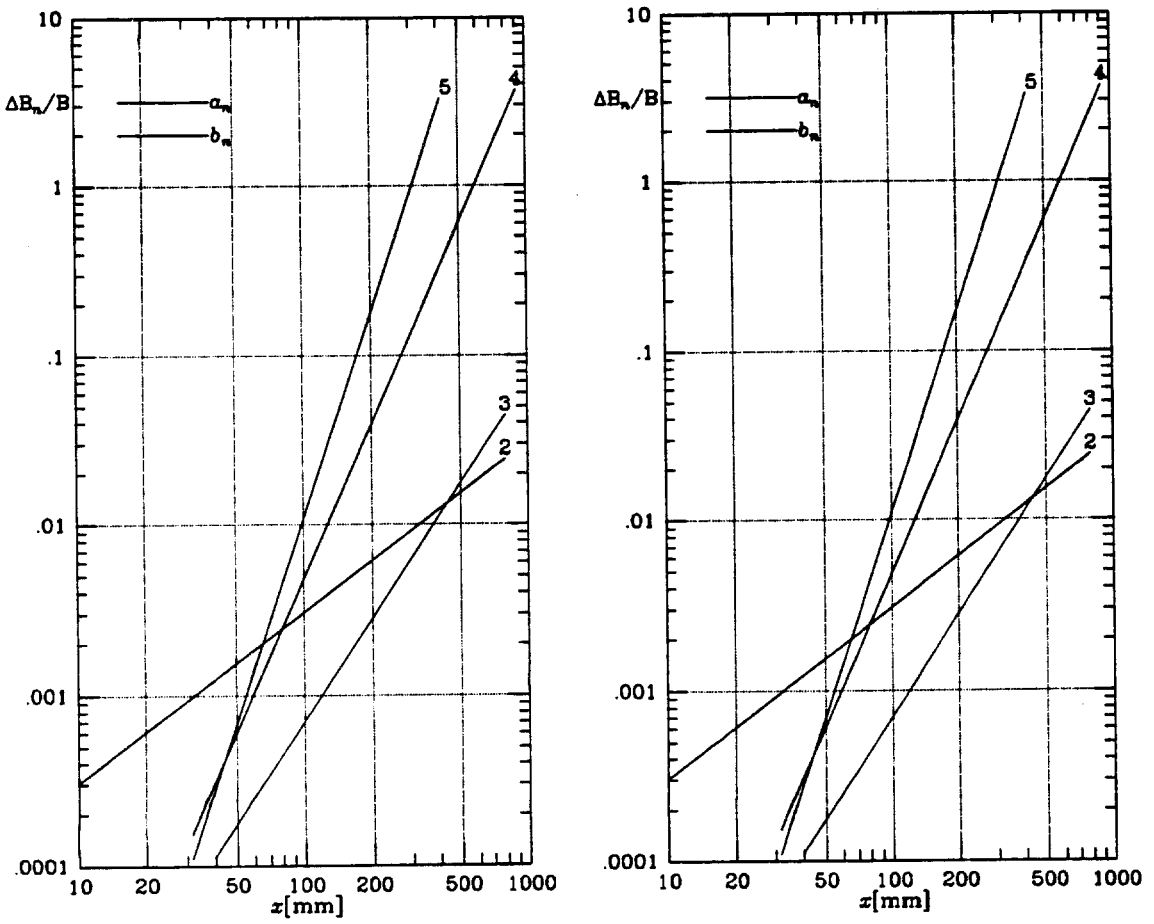
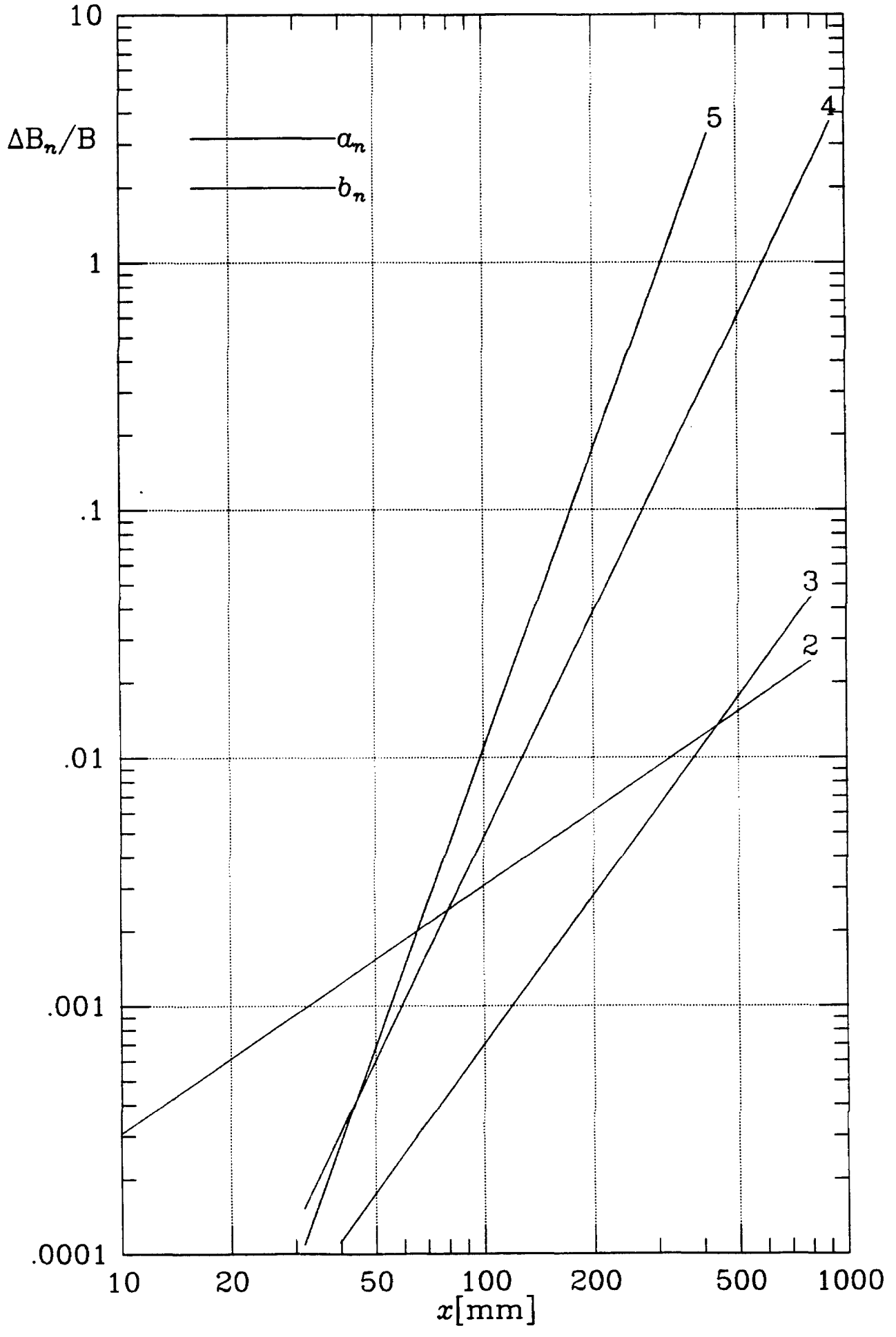


FIGURE 2 Same as Fig. 1 displayed using **WINDOW**.

This, of course, is done by having the line
`\grafix 13.5cm,20cm,vector,graf2.q,1` in your LaTeX file.


10
1
.1
.01
.001
.0001
$\Delta B_n/B$
a_n
b_n
5
4
3
2
10
20
50
100
200
500
1000
x[mm]